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EUROPEAN PATENT APPLICATION

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- (54) Improved electrophysiological mapping and ablation catheter and method
- (57) A mapping and ablating catheter having a short distal tip electrode (40, 58, 68), comprising a bio-compatible outer surface and a thermal dissipating mass for dissipating hoat roceived by the electrode. The outer surface may be formed by plating a thin layer of gold or platinum on the dissipating mass, or the entire electrode may be formed of a homogenous material such as a gold alloy that is bio-compatible thereby forming the outer surface with the mass itself. An alloy having a thormal

conductivity greater than pure platinum is used so that the ablation procedure can be completed before excooding the temporature limits. In one case, the antire electrode was formed of an 88% gold 12% nickel alloy. The electrical feed to the electrode is oversized to also dissipate heat received by the electrode. The electrode is no greater than five min in length yet produces an ablation volume equal to or greater than longer electrodes. One or more band electrodes (70) may also include thermal dissipating masses.

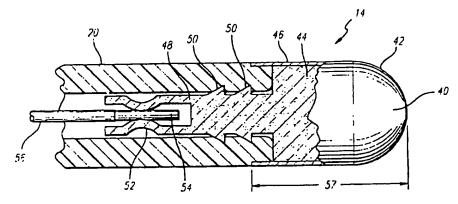


FIG. 4

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which under Rule 45 of the European Patent Convention EP 95 30 0413 shall be considered, for the purposes of subsequent proceedings, as the European search report

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	* column 2, line 3/ * column 6, line 55 * column 7, line 25 * column 8, line 9 * figure 5 *	- column 3, line 17 * - line 60 * - line 38 * - column 13 *		TECHNICAL FIELDS SEARCHED (Int.CLb) A61N A61B
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Y: ,	CATEGORY OF CITED DUCUMENTS 1: theory or principle underlying the levention F: cartier patent document, but published no, nr after the fitting date particularly relevant if taken alone particularly relevant if conclained with another document of the same category L: document cited in the application L: document cited for other reasons teacheological background 2: powerstitm disclosure interrophate document 2: powers of the same palent tantly, corresponding document			

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EP 95 30 0413

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